

What is claimed is:

1. A candle wax which includes about 50 to 65 wt. % of a triacylglycerol component and about 35 to 50 wt. % of a fatty acid component;
wherein the fatty acid component includes at least about 90 wt. % palmitic acid, stearic acid or a mixture thereof; and
the triacylglycerol component has an Iodine Value of about 35 to 45; and a fatty acid composition which includes about 14 to 25 wt. % 16:0 fatty acid; about 35 to 45 wt. % 18:0 fatty acid; and about 35 to 45 wt. % 18:1 fatty acid.
2. The wax of claim 1 wherein said wax has a melting point of about 57 to 63°C.
3. A candle wax which includes about 50 to 65 wt. % of a triacylglycerol component and about 35 to 50 wt. % of a fatty acid component;
wherein the fatty acid component includes at least about 90 wt. % palmitic acid, stearic acid or a mixture thereof; and
the triacylglycerol component has a melting point of about 57 to 63°C; and a fatty acid composition which includes about 14 to 25 wt. % 16:0 fatty acid; about 35 to 45 wt. % 18:0 fatty acid; and about 35 to 45 wt. % 18:1 fatty acid.
4. The wax of claim 3 wherein the triacylglycerol component includes hydrogenated vegetable oil.
5. The wax of claim 4 wherein the hydrogenated vegetable oil includes hydrogenated soybean oil, hydrogenated cottonseed oil, hydrogenated sunflower oil, hydrogenated canola oil, hydrogenated corn oil, hydrogenated palm oil, hydrogenated olive oil, hydrogenated peanut oil, hydrogenated safflower oil or a mixture thereof.
6. The wax of claim 5 wherein hydrogenated vegetable oil includes hydrogenated bleached, refined vegetable oil.

7. The wax of claim 3 wherein the triacylglycerol component has an Iodine Value of about 35 to about 45.
8. The wax of claim 3 wherein said wax has a melting point of about 57 to 63°C.
9. A candle comprising a wick and a vegetable oil-based wax;
wherein the vegetable oil-based wax includes a fatty acid component including at least about 90 wt. % palmitic acid, stearic acid or a mixture thereof; and a triacylglycerol component having a melting point of about 57 to 63°C and a fatty acid composition which includes about 14 to 18 wt. % 16:0 fatty acid; about 35 to 45 wt. % 18:0 fatty acid; and about 35 to 45 wt. % 18:1 fatty acid.
10. The candle of claim 9 wherein the wax includes about 50 to 65 wt. % of the triacylglycerol component.
11. The candle of claim 9 wherein the wax includes about 35 to 50 wt. % of the fatty acid component.
12. The candle of claim 9 wherein the triacylglycerol component has an Iodine Value of about 35 to 45.
13. The candle of claim 9 wherein the fatty acid component includes about 35 to 50 wt. % palmitic acid and about 45 to 65 wt. % stearic acid.
14. The candle of claim 9 wherein the wax further comprises colorant.
15. The candle of claim 9 wherein the wax further comprises insect repellent.
16. The candle of claim 9 wherein the wax further comprises fragrance oil.
17. The candle of claim 9 wherein the vegetable oil-based wax has a melting point of about 57 to 63°C.

18. A method of producing a candle comprising:
heating a vegetable oil-based wax to a molten state; and
solidifying the molten vegetable oil-based wax around a portion of a wick;
wherein the vegetable oil-based wax includes a fatty acid component
including at least about 90 wt. % palmitic acid, stearic acid or a mixture thereof; and
a triacylglycerol component having a melting point of about 57 to 63°C and
a fatty acid composition which includes about 14 to 25 wt. % 16:0 fatty acid; about
35 to 45 wt. % 18:0 fatty acid; and about 35 to 45 wt. % 18:1 fatty acid.
19. The method of claim 18 wherein the triacylglycerol component has an Iodine
Value of about 35 to about 45.
20. The method of claim 18 wherein the fatty acid component includes about 35
to 50 wt. % palmitic acid and about 45 to 65 wt. % stearic acid.

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